



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Rolsafe LLC
12801 Commonwealth Drive #7
Fort Myers, Florida 33913

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 53 mm Herculean Aluminum Wind Abatement System

APPROVAL DOCUMENT: Drawing No. 15-152, titled " Wind Abatement System Large & Small Missile Impact Rated ", sheets 1 through 8 of 8, prepared by EngCo, Inc., dated May 13, 2015, signed and sealed by Pedro De Figueiredo, P.E., on May 13, 2015, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA #12-0308.45 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
07/09/2015

NOA No. 15-0609.14
Expiration Date: 06/02/2020
Approval Date: 07/09/2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0104.04

A. DRAWINGS

1. *Drawing No. 09-169.1, titled "53 mm Herculean Aluminum Rolling Wall", sheets 1 through 8 of 8, prepared by EngCo, Inc., dated May 05, 2010, signed and sealed by Pedro De Figueiredo, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Uniform Static Air Pressure Test, and Cyclic Wind Pressure Test of 53 mm Herculean Aluminum Rolling Wall, prepared by Hurricane Testing Laboratory LLC, Report No. 0468-0308-08 & 0468-1104-07, dated September 23, 2009, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *Slat Analysis and Anchor calculation, dated September 25, 2009, 28 sheets, prepared by EngCo Inc., signed and sealed by Pedro De Figueiredo, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Marked-up drawings from Hurricane Testing Laboratory LLC, Report No. 0468-0308-08 & 0468-1104-07, dated September 23, 2009, signed and sealed by Vinu J. Abraham, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0308.45

A. DRAWINGS

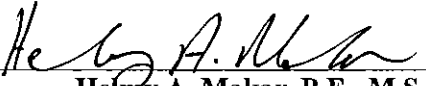
1. *Drawing No. 12-032, titled "Wind Abatement System Large & Small Missile Impact Rated", sheets 1 through 8 of 8, prepared by EngCo, Inc., dated February 14, 2010, signed and sealed by Pedro De Figueiredo, P.E., on June 06, 2012.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*


Henry A. Makar, P.E., M.S.

Product Control Unit Supervisor

NOA No. 15-0609.14

Expiration Date: 06/02/2020

Approval Date: 07/09/2015

Rolsafe LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 15-152, titled " Wind Abatement System Large & Small Missile Impact Rated ", sheets 1 through 8 of 8, prepared by EngCo, Inc., dated May 13, 2015, signed and sealed by Pedro De Figueiredo, P.E., on May 13, 2015.*

B. TESTS

1. *None.*

C. CALCULATIONS

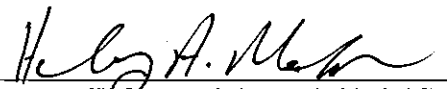
1. *Slat Analysis and Anchor calculation, dated May 13, 2015, 24 sheets, prepared by EngCo Inc., signed and sealed by Pedro De Figueiredo, P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 15-0609.14
Expiration Date: 06/02/2020
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DESIGN SCHEDULE	
COMPONENT	SHEET
SLAT ALLOWABLE PRESSURE - TABLE 1	1
GLASS SEPARATION - TABLE 1	1
TRACK REACTION - TABLE 2	5
TRACK ANCHORAGE - TABLE 2	5
MULLION	6 & 7

- NOTES:
- 1- ALLOWABLE DESIGNED PRESSURE ARE FUNCTION OF THE LOWEST ALLOWABLE DESIGNED LOAD FOR EACH COMPONENT (SLATS, ANCHORAGE & MULLIONS)
 - 2- DESIGNED PRESSURES MUST NOT EXCEED 150 PSF.
 - 3- FINISHED WIDTH (FW) MUST NOT EXCEED 270-1/4".

GENERAL NOTES: (FLORIDA BUILDING CODE 2014 - HVHZ)

- 1- DEFINITION: THIS PRODUCT IS A ROLLING WIND ABATEMENT SYSTEM; DESIGNED, CONSTRUCTED AND ERECTED TO EASILY ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 2- POSTING: A PERMANENT LABEL SHALL BE PROVIDED AS PER FBC 2014 SECTION 1710.8. IT SHALL BE LOCATED ON THE BOTTOM OF THE HOOD FACING THE EXTERIOR OR OUTSIDE OR THE BOTTOM SLAT FACING THE EXTERIOR OR OUTSIDE AND A MINIMUM OF ONE LABEL PER OPENING. INFORMATION TO STATE THE FOLLOWING:

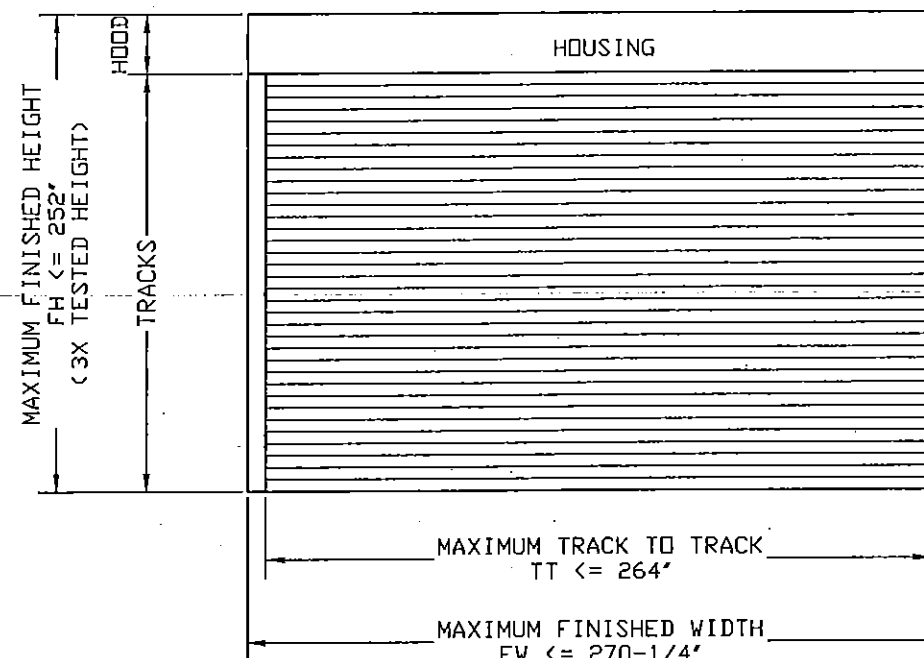
*ROLSAFE - FORT MYERS - FLORIDA
LARGE & SMALL MISSILE IMPACT RESISTANT
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

- 3- LIMITATION: PRODUCT MUST BE SET AWAY, A DISTANCE AS SPECIFIED ON TABLE 1, FROM GLAZING AREAS TO BE PROTECTED
- 4- LOADS: THE PROJECT DESIGN PRESSURES, PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER, AS DETERMINED FROM SECTION 1620 AND ASCE 7-10 MUST BE MULTIPLIED BY 0.6 FACTOR. THE PROJECT DESIGN PRESSURES MUST NOT EXCEED THE PRODUCT ALLOWABLE PRESSURES FOR EACH COMPONENT TO BE USED.
- 5- MATERIAL: ALL EXTRUDED ALUMINUM SHAPES SHALL BE MADE OF 6063-T6 OR AS NOTED.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, WIND LOADS, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL.

TABLE 1
ALLOWABLE DESIGNED RATING (PSF)

FW MAX. (IN)	TT MAX. (IN)	DESIGN RATING MOUNT TYPE		TOTAL GLASS SEPARATION (GS) INCHES
		WALL	INSET	
126.25	120	150	150	7 1/4"
156.25	150	110	110	7 1/4"
186.25	180	70	70	8"
228.25	222	70	68	8"
270.25	264	70	65	11 1/4"

- NOTES:
- 1- FOR MOUNT COMBINATION WALL/INSET USE INSET MOUNT PRESSURES
 - 2- FOR ALTERNATE INSET USE INSET MOUNT PRESSURES



CODE AND STANDARD COMPLIANCE:
FLORIDA BUILDING CODE 2014 (HVHZ)
TAS 201, 202, 203 (LARGE & SMALL MISSILE)

MANUFACTURER:

ROLSAFE

12801 COMMONWEALTH
DRIVE SUITE 2
FORT MYERS, FL. 33913
PHONE: (239) 225-2487
FAX: (239) 561-0780

PRODUCT:

53mm HERCULEAN

WIND ABATEMENT SYSTEM
LARGE & SMALL MISSILE
IMPACT RATED

Engineering:

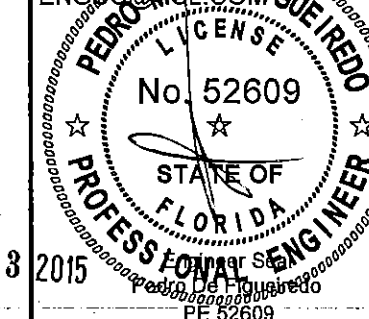
EngCo Inc.

CA 8116
5595 Orange Dr. 201
Davie, FL 33314

Tel.: (954) 585-0304

Fax: (954) 585-0302

ENGCO INC.



MAY 13 2015

MIAMI-DADE BCCO:

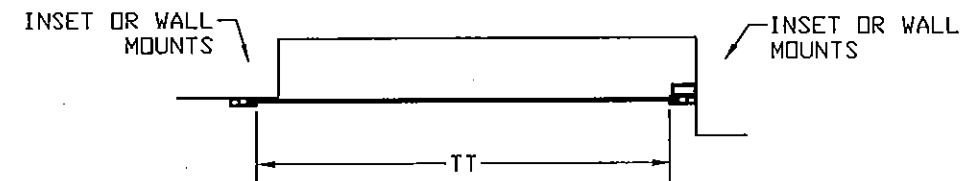
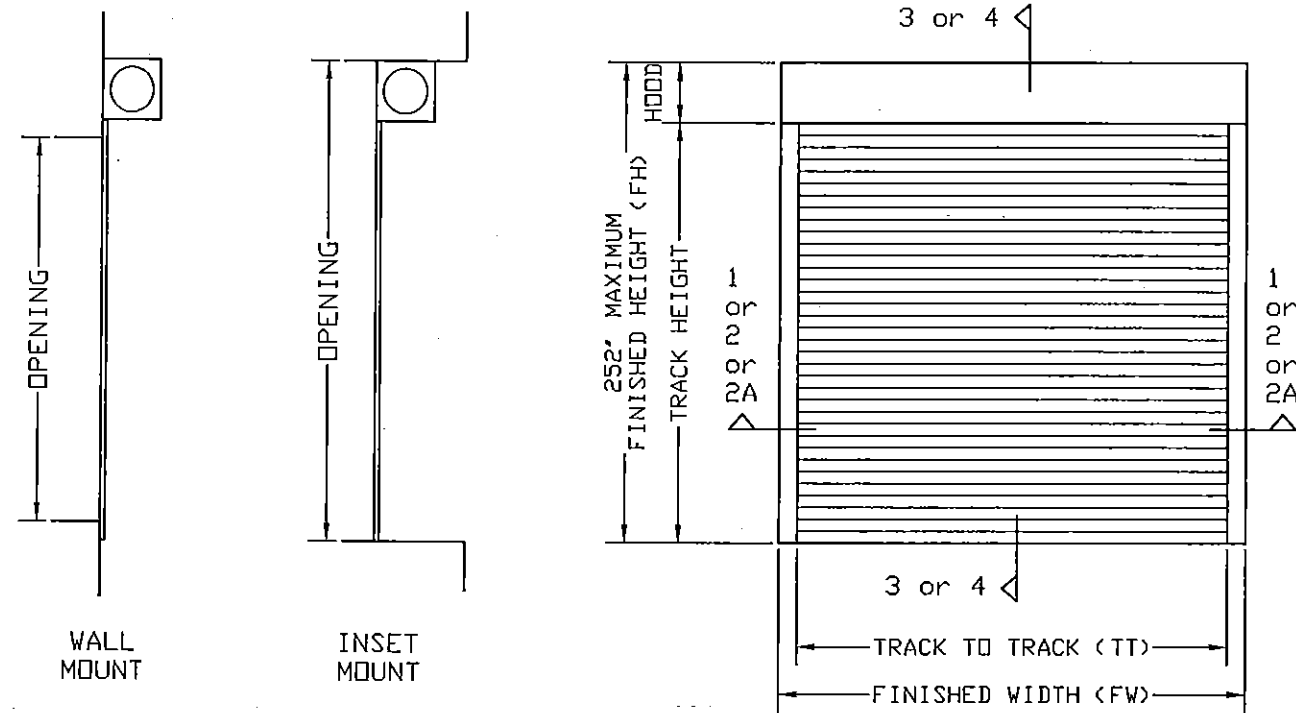
PRODUCT REVISED
as complying with the Florida:
Building Code
Acceptance No 15-9609.14
Expiration Date 06/02/2020
By [Signature]
Miami Dade Product Control

Date: 05/13/2015
Scale: NA
Design by: PPMF

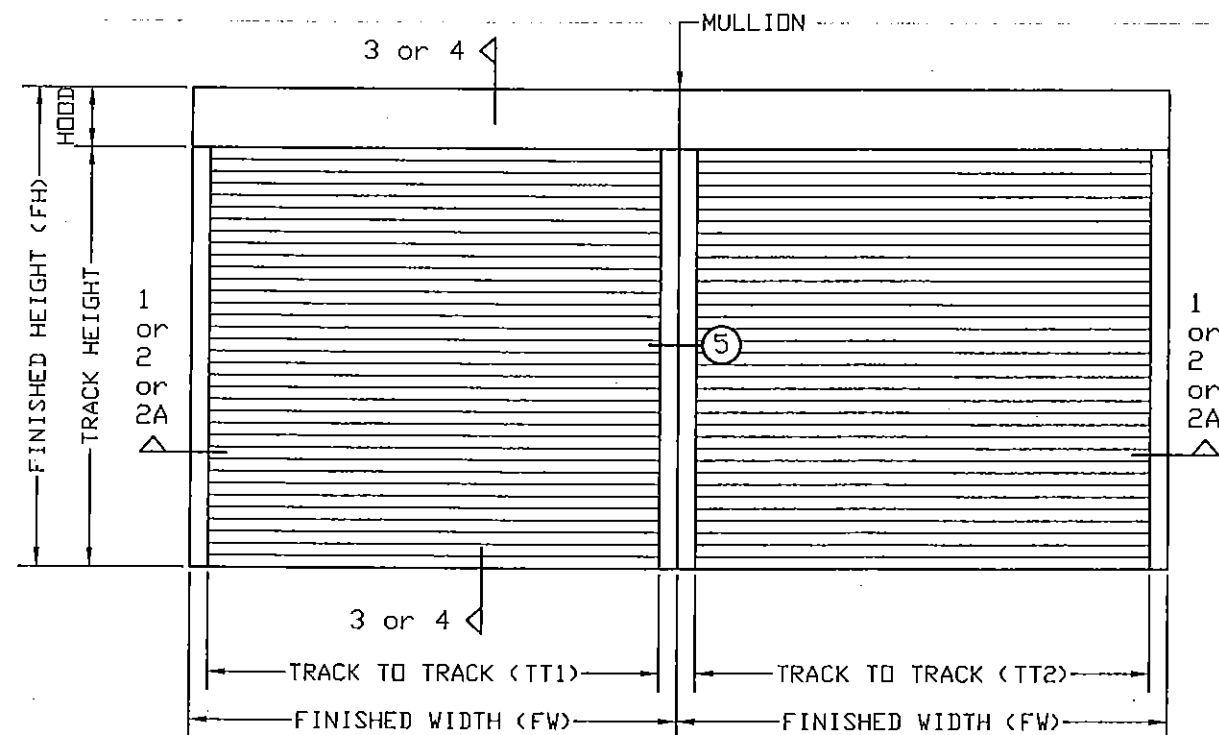
Drawing Number
15-152

SHEET
1 of 8

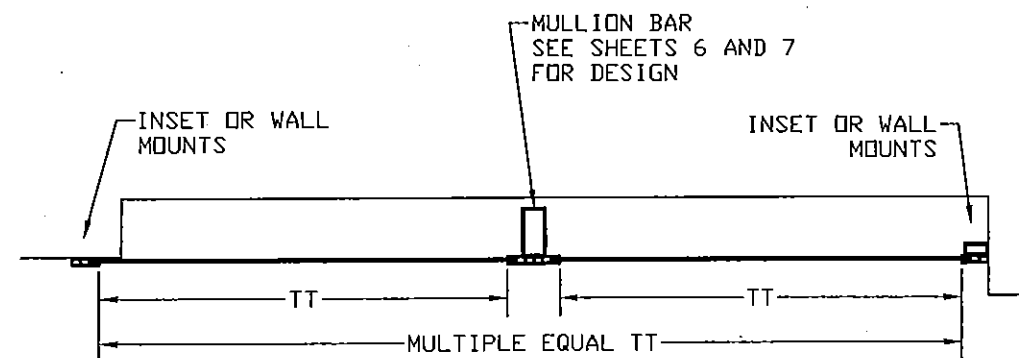
TYPICAL SINGLE UNIT ELEVATION



TYPICAL MULTIPLE UNITS ELEVATION



TT1 = TT2



MANUFACTURER:

ROLSAFE

12801 COMMONWEALTH
DRIVE SUITE 2
FORT MYERS, FL. 33913
PHONE: (239) 225-2487
FAX: (239) 561-0780

PRODUCT:

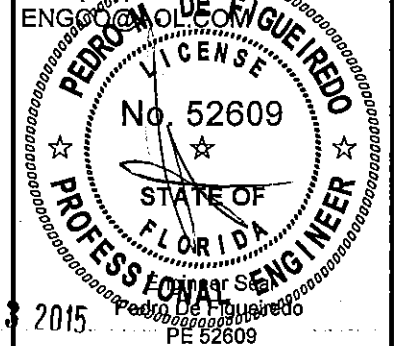
53mm HERCULEAN

WIND ABATEMENT SYSTEM
LARGE & SMALL MISSILE
IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
5595 Orange Dr. 201
Davie, FL. 33314
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Fax: (954) 585-0305



MIAMI-DADE BCCO:

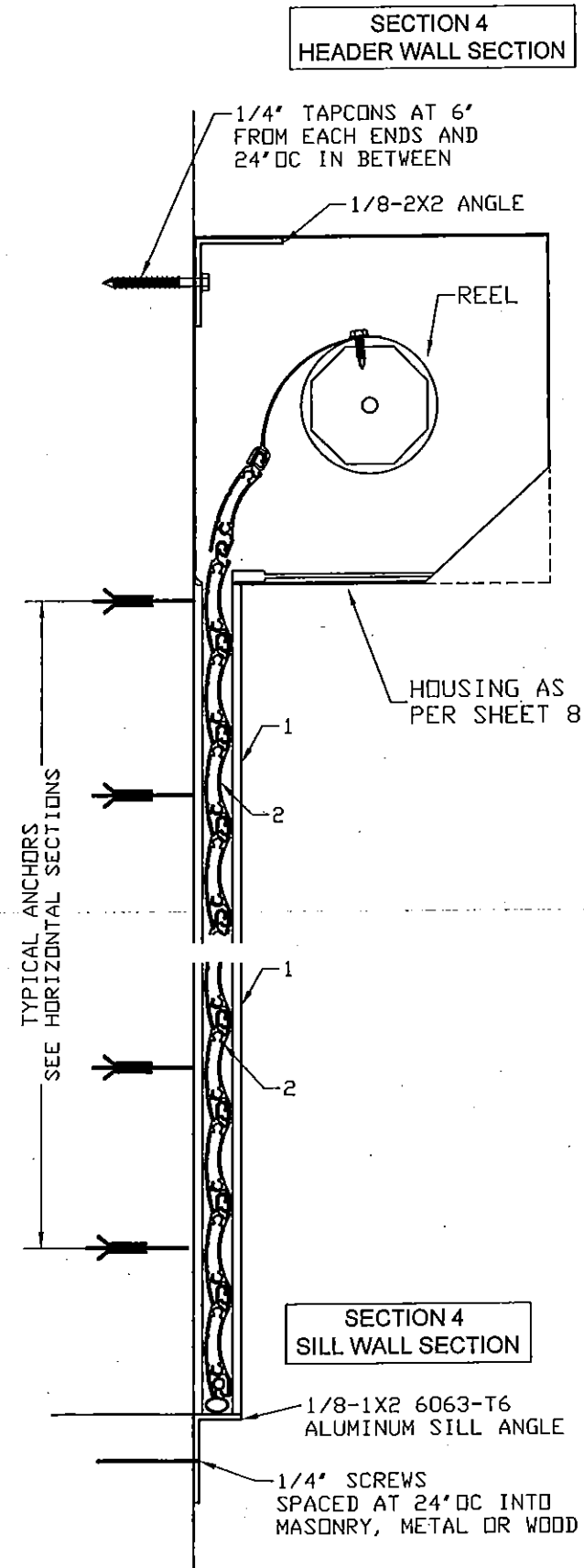
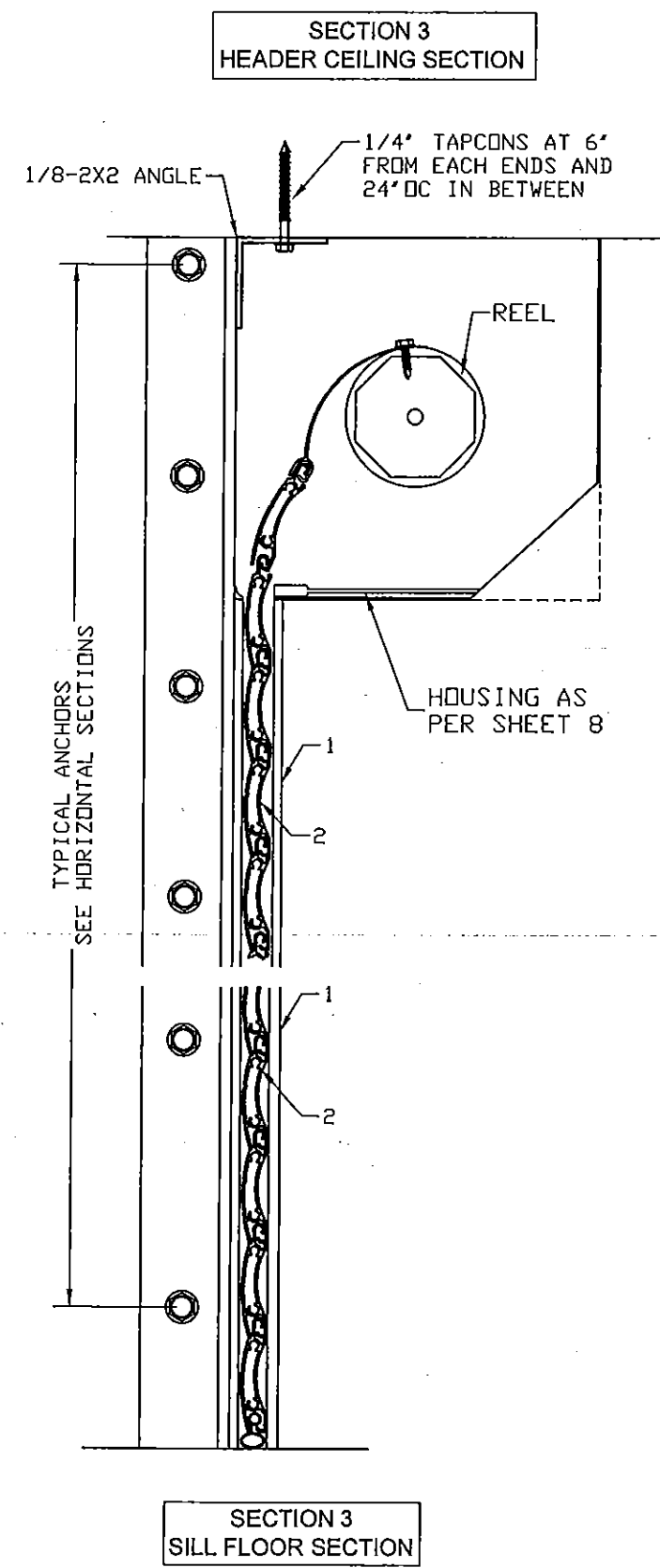
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0609.14
Expiration Date 06/02/2020
By *Heidi A. Miller*
Miami Dade Product Control

Date: 05/13/2015
Scale: NA
Design by: PPMF

Drawing Number
15-152

SHEET
2 of 8

TYPICAL VERTICAL SECTIONS



MANUFACTURER:
ROLSAFE
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PHONE: (239) 225-2487
FAX: (239) 561-0780

PRODUCT:
53mm HERCULEAN
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5595 Orange Dr. 201
Davie, FL 33314
Tel.: (954) 585-0304
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ENGCO INC.

MAY 13 2015
PE 52609

MIAMI-DADE BCCO:

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Expiration Date 06/02/2020
By Heidi A. Miller
Miami Dade Product Control

Date: 05/13/2015
Scale: NA
Design by: PPMF

Drawing Number
15-152

SHEET
3 of 8

1.25

Technical drawing of a cross-section of a metal profile. The drawing shows a U-shaped profile with a central web and two flanges. The dimensions are as follows:

- Overall width: 2.53
- Width of the central web: 2.08
- Thickness of the flange: 0.558
- Radius of the inner fillet: 2.04

Technical drawing of a mechanical part, likely a bracket or support. The drawing shows a side view and a cross-section. The side view has dimensions: 2.42 (total width), 1.31 (distance between mounting holes), 0.55 (height of the mounting holes), 0.41 (height of the base), and 0.477 (width of the mounting holes). The cross-section shows a width of 0.54.

A diagram of a square tile. The outer square has a side length of 2.00'. Inside it, a smaller square is shown, with a gap of 0.25' between the two squares on all four sides. The inner square's side length is 2.00' - 2 * 0.25' = 1.50'.

FIG. 1 is a perspective view of a slat assembly. The assembly consists of a series of slats (2) held together by a vertical support structure (3) and a horizontal support structure (4). The slats are spaced at a maximum of 24 inches on center (MAX. 24' OC). The slat size is defined as TT + 2.62 inches.

1

1A

2

3

4

5

0.76

1.31

3.13

SLAT-T

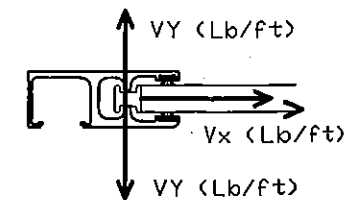
(TT) TRACK TO TRACK

(FW) FINISHED WIDTH

SHEET
4 of 8

TABLE 2
SPACING ON CENTER FUNCTION OF MOUNT TYPE, PRESSURE AND TRACK TO TRACK (TT)

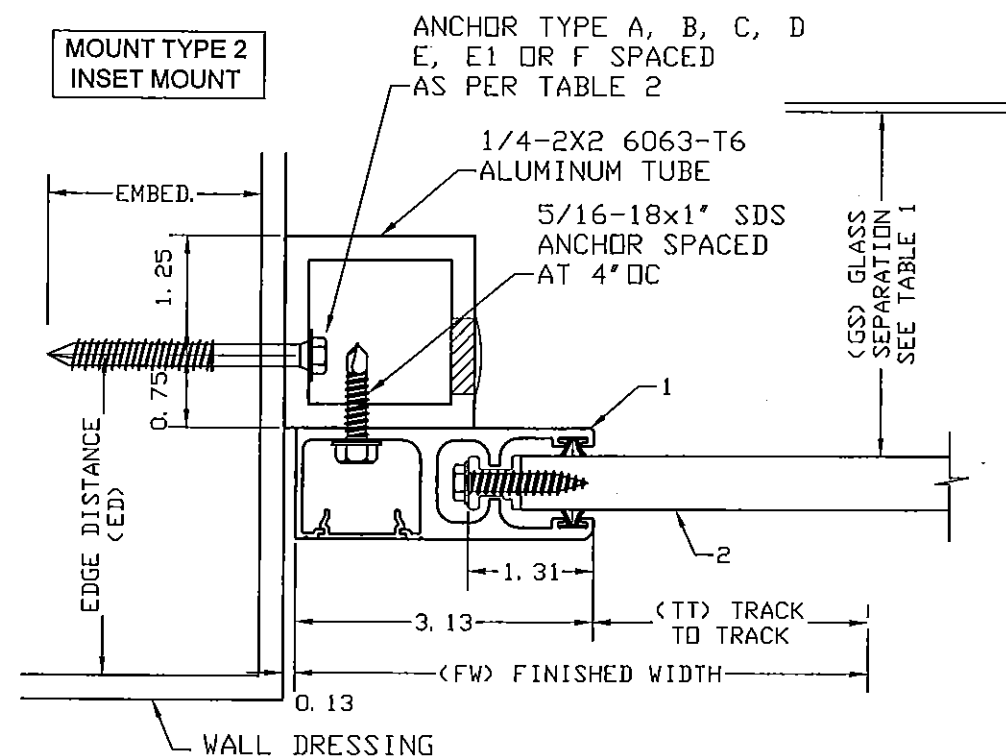
TT In	Pd Psf	REACTIONS LB/FT		WALL MOUNT							INSET MOUNT							ALTERNATE INSET MOUNT						
		Vy	Vx	A	B	C	D	E	E1	G	A	B	C	D	E	E1	F	A	B	C	D	E	E1	
264	40	440	3933	-	-	3	-	-	-	5	-	-	-	-	-	-	6	-	4	5	-	6	6	
264	65	715	5304	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	3	-	5	5	
264	70	770	5390	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	3	-	5	4	
222	40	370	2517	-	-	5	-	5	5	6	-	-	4	-	6	6	6	6	6	6	6	6	6	
222	68	629	3874	-	-	3	-	-	-	5	-	-	-	-	-	-	6	-	4	5	-	6	6	
222	70	648	3947	-	-	3	-	-	-	5	-	-	-	-	-	-	6	-	-	5	-	6	6	
180	40	300	1598	5	5	6	-	6	6	6	4	5	6	4	6	6	6	6	6	6	6	6	6	
180	70	525	2901	-	-	4	-	-	4	6	-	-	3	-	5	4	6	5	6	6	5	6	6	
180	90	675	3536	-	-	3	-	-	-	5	-	-	-	-	-	-	6	-	4	6	-	6	6	
150	40	250	933	6	6	6	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
150	70	438	1915	4	4	6	-	6	6	6	-	4	5	-	6	6	6	6	6	6	6	6	6	
150	90	563	2427	-	-	5	-	5	5	6	-	-	3	-	6	5	6	6	6	6	5	6	6	
150	110	688	2874	-	-	4	-	-	4	6	-	-	-	-	-	4	6	5	6	6	4	6	6	
120	40	200	636	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
120	70	350	1366	5	5	6	-	6	6	6	5	6	6	4	6	6	6	6	6	6	6	6	6	
120	90	450	1774	4	4	6	-	6	6	6	4	4	6	-	6	6	6	6	6	6	6	6	6	
120	110	550	2151	-	-	5	-	6	5	6	-	-	4	-	6	6	6	6	6	6	6	6	6	
120	150	750	2887	-	-	4	-	-	4	6	-	-	-	-	-	4	6	5	5	6	4	6	6	



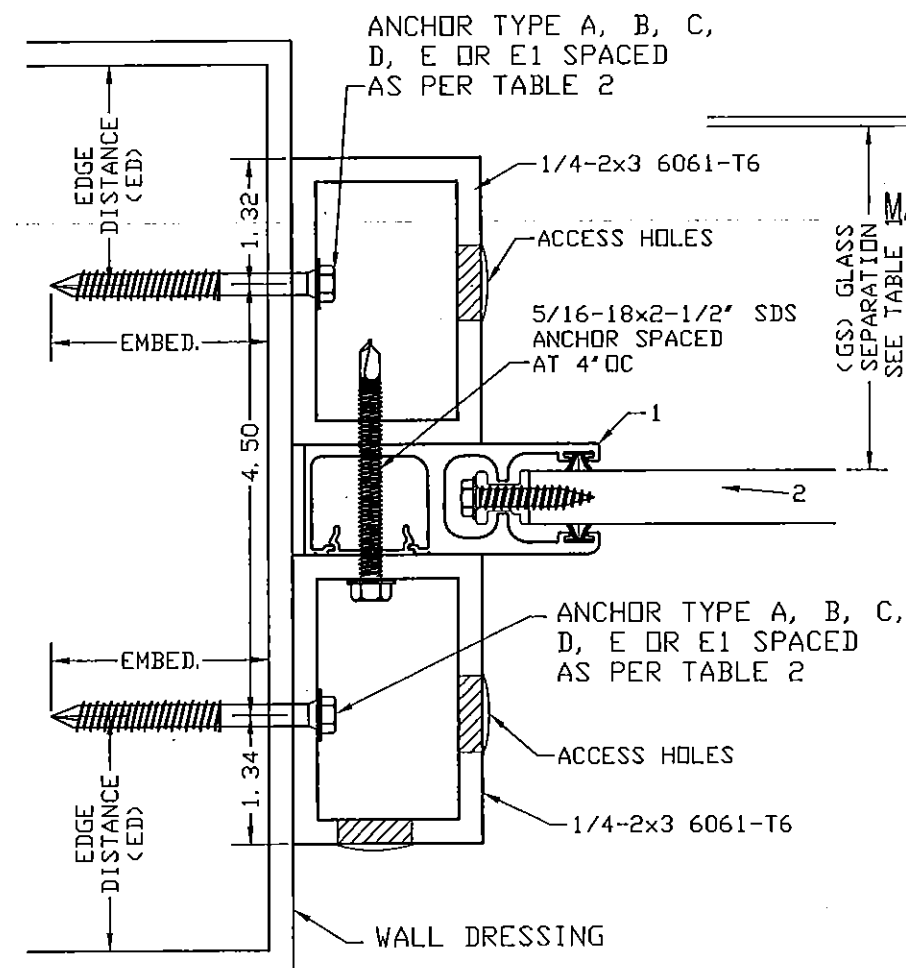
CONTRACTOR TO VERIFY
ADEQUACY OF STRUCTURE
FOR MAXIMUM IMPOSED
LOADS VY AND Vx

ANCHOR SCHEDULE

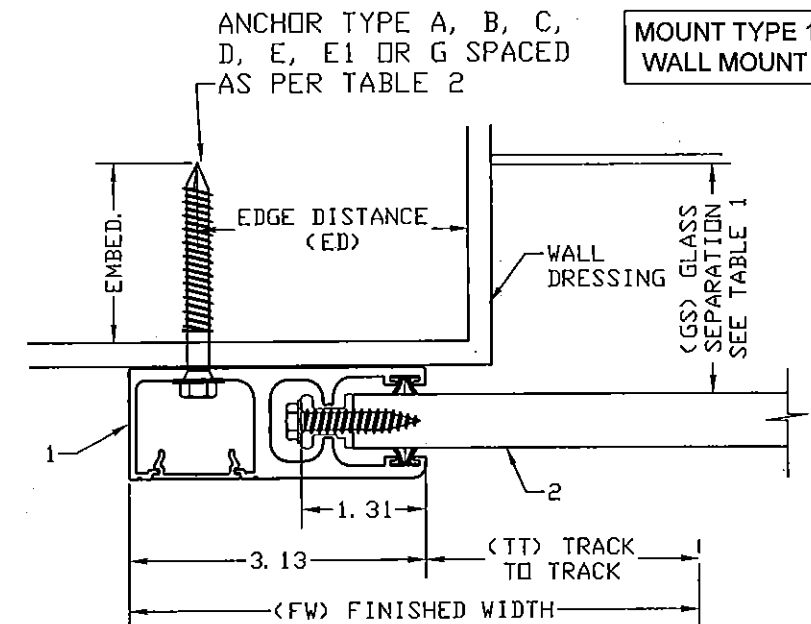
ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE	MINIMUM SPACING
A	5/16" ITW TAPCONS	MIN. 2899 psi CONCRETE	2 1/4"	3 1/8"	4"
B	5/16" ITW TAPCONS	GROUT FILLED C-90 BLOCK	2 1/4"	4"	4"
C	5/16"-18X1" GRADE 5 SELF DRILLING SCREWS	MIN. 1/4" 6063-T6 ALUM. OR A36 3/16" STEEL		5/8"	3"
D	5/16" ITW TAPCONS	WOOD WITH G>= 55	2 1/4"	1-1/4"	4"
E	3/8" POWERS WEDGE BOLT	MIN. 3000 psi CONCRETE	3 1/2"	4-1/2"	5"
E1	3/8" POWERS WEDGE BOLT	MIN. 3000 psi CONCRETE	3 1/2"	4-1/2"	4"
F	3/4" POWERS WEDGE BOLT	MIN. 5000 psi CONCRETE	6"	9"	6"
G	3/8"-16X1" GRADE 5 SELF DRILLING SCREWS	MIN. 3/8" 6005-T5 ALUM. OR A36 5/16" STEEL		3/4"	3"



MOUNT TYPE 3
ALTERNATE
INSET MOUNT



TYPICAL HORIZONTAL SECTIONS



MANUFACTURER:

ROLSAFE

12801 COMMONWEALTH
DRIVE SUITE 2
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PRODUCT:

53mm HERCULEAN

WIND ABATEMENT SYSTEM
LARGE & SMALL MISSILE
IMPACT RATED

Engineering:

EngCo Inc.

CA 8116

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Davie, FL 33314

Tel.: (954) 585-0304

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ENGCO@ENGCOINC.COM

PE 52609

STATE OF FLORIDA

PROFESSIONAL ENGINEER

No 52609

MAY 13 2015

PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No 15-0609.14

Expiration Date 06/02/2020

By *Heidi A. Adkins*

Miami Dade Product Control

Date: 05/13/2015

Scale: NA

Design by: PPMF

Drawing Number

15-152

SHEET

5 of 8

MANUFACTURER:

12801 COMMONWEALTH
DRIVE SUITE 2
FORT MYERS, FL. 33913
PHONE: (239) 225-2487
FAX: (239) 561-0780

WIND ABATEMENT SYSTEM
LARGE & SMALL MISSILE
IMPACT RATED

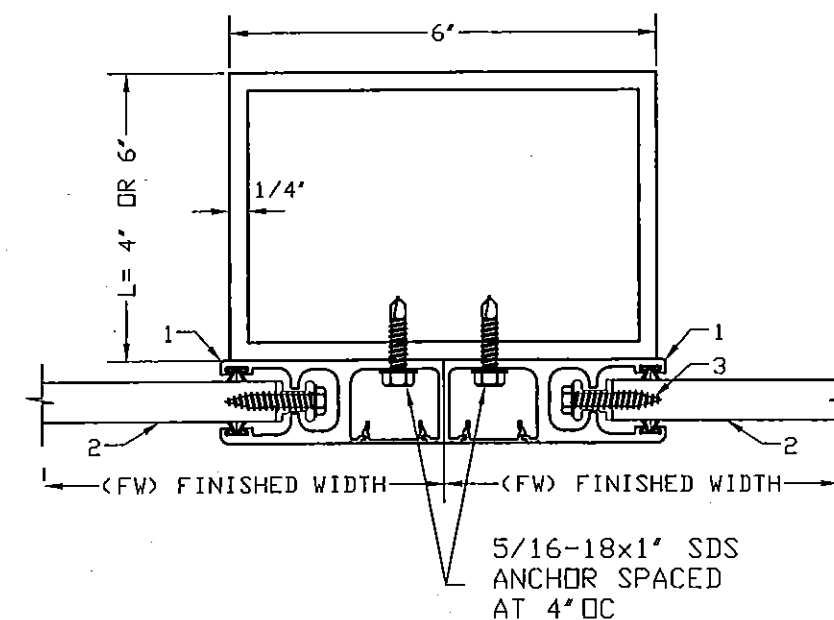
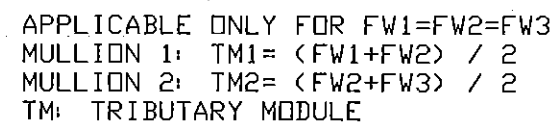
CA 8116
5595 Orange Dr. 201
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Tel.: (954) 585-0304
Fax: (954) 585-0305
ENGCOOL.COM



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0609.14
Expiration Date 06/03/2020
By Heidi A. Nelson
Miami Dade Product Control

Drawing Number
15-152

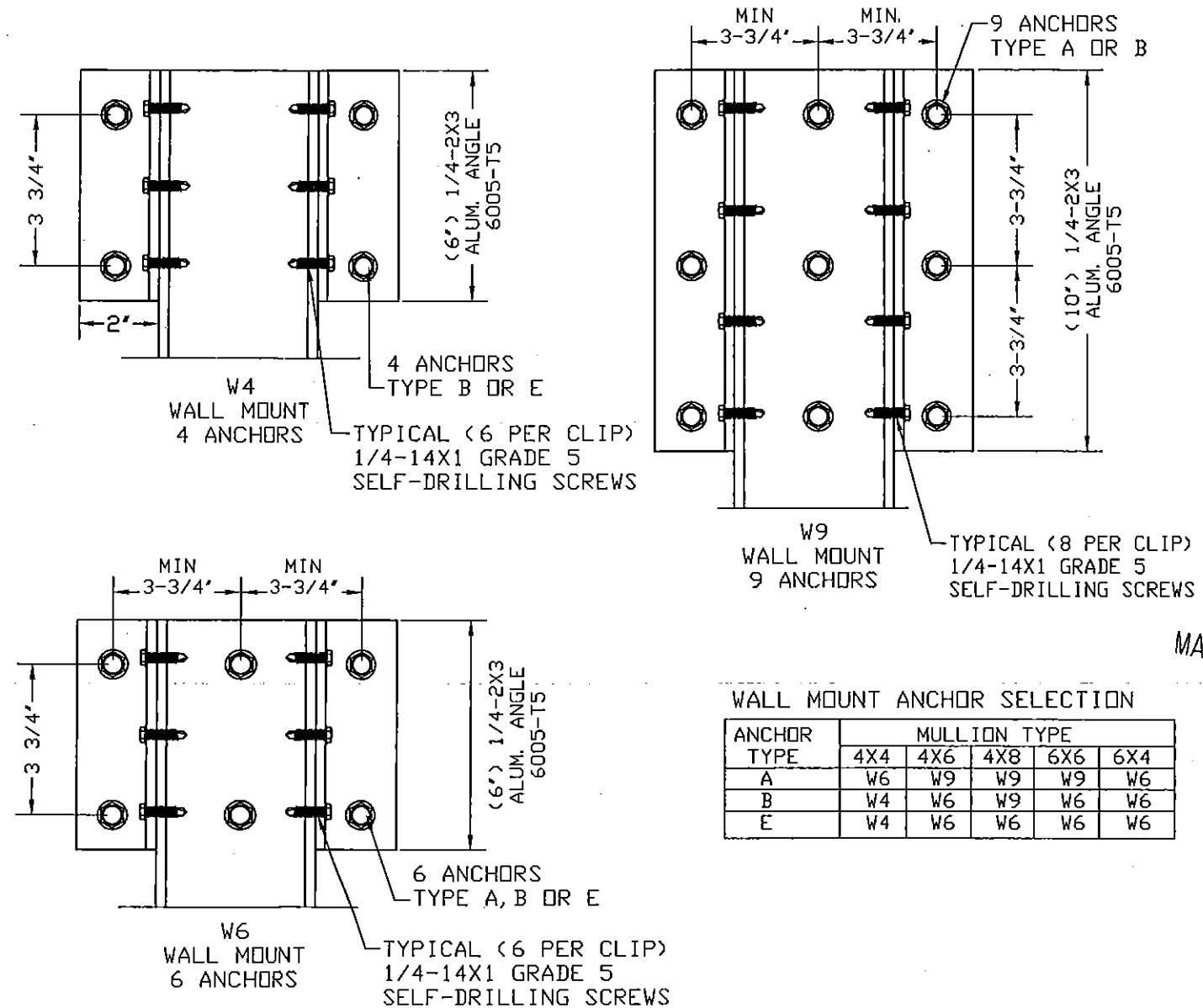
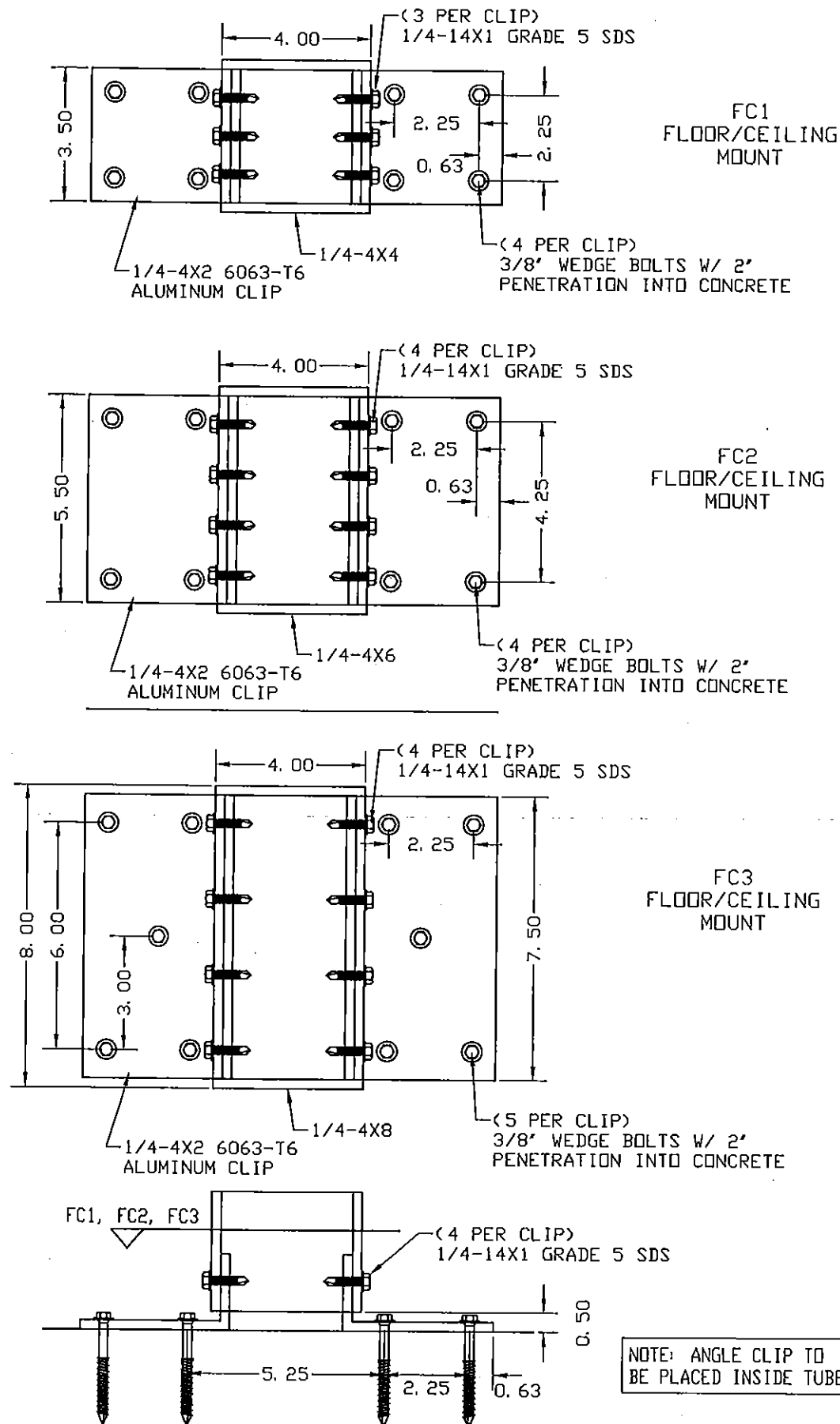
SHEET
6 of 8



DOOR MODULE	MULLION TYPE & MAX. HEIGHT														
	1/4-4x8			1/4-4x6			1/4-4x4			1/4-6x6			1/4-6x4		
	144	132	120	120	108	96	96	84	72	120	108	96	96	84	72
264	37	44	54	31	43	55	23	35	55	43	55	61	32	48	65
222	44	53	64	37	52	66	27	41	66	51	65	70	38	57	70
180	54	65	79	46	64	81	34	51	81	63	70	70	47	70	70
150	65	78	95	56	77	97	41	61	97	76	96	108	56	84	110
120	82	98	119	70	96	122	51	77	122	95	120	135	70	106	143

NOTES:
1- MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL 2005 ED. AND THE FLORIDA BUILDING CODE.
2- DEFLECTION CRITERIA: MAXIMUM SPAN /180
3- VALUES ABOVE IS APPLICABLE ONLY FOR EQUAL MODULES FW1=FW2=FW3.

EQUALLY SPACED MULLIONS WALL AND INSET CONNECTIONS



WALL MOUNT ANCHOR SELECTION

ANCHOR TYPE	MULLION TYPE				
	4X4	4X6	4X8	6X6	6X4
A	W6	W9	W9	W9	W6
B	W4	W6	W9	W6	W6
E	W4	W6	W6	W6	W6

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE
A	5/16" ITW TAPCONS	MIN. 2899 psi CONCRETE	2 1/4"	3 1/8"
B	5/16" ITW TAPCONS	GROUT FILLED C-90 BLOCK	2 1/4"	4"
E2	3/8" POWERS WEDGE BOLT	MIN. 3000 psi CONCRETE	2 1/2"	4-1/2"

MANUFACTURER:

ROLSAFE

12801 COMMONWEALTH DRIVE SUITE 2
FORT MYERS, FL. 33913
PHONE: (239) 225-2487
FAX: (239) 561-0780

PRODUCT:

53mm HERCULEAN

WIND ABATEMENT SYSTEM
LARGE & SMALL MISSILE
IMPACT RATED

Engineering:

EngCo Inc.

CA 8116
5595 Orange Dr. 201
Davie, FL 33314
Tel.: (954) 585-0304
Fax: (954) 585-0305
ENGCO@MOL.COM



MIAMI-DADE BCCO:

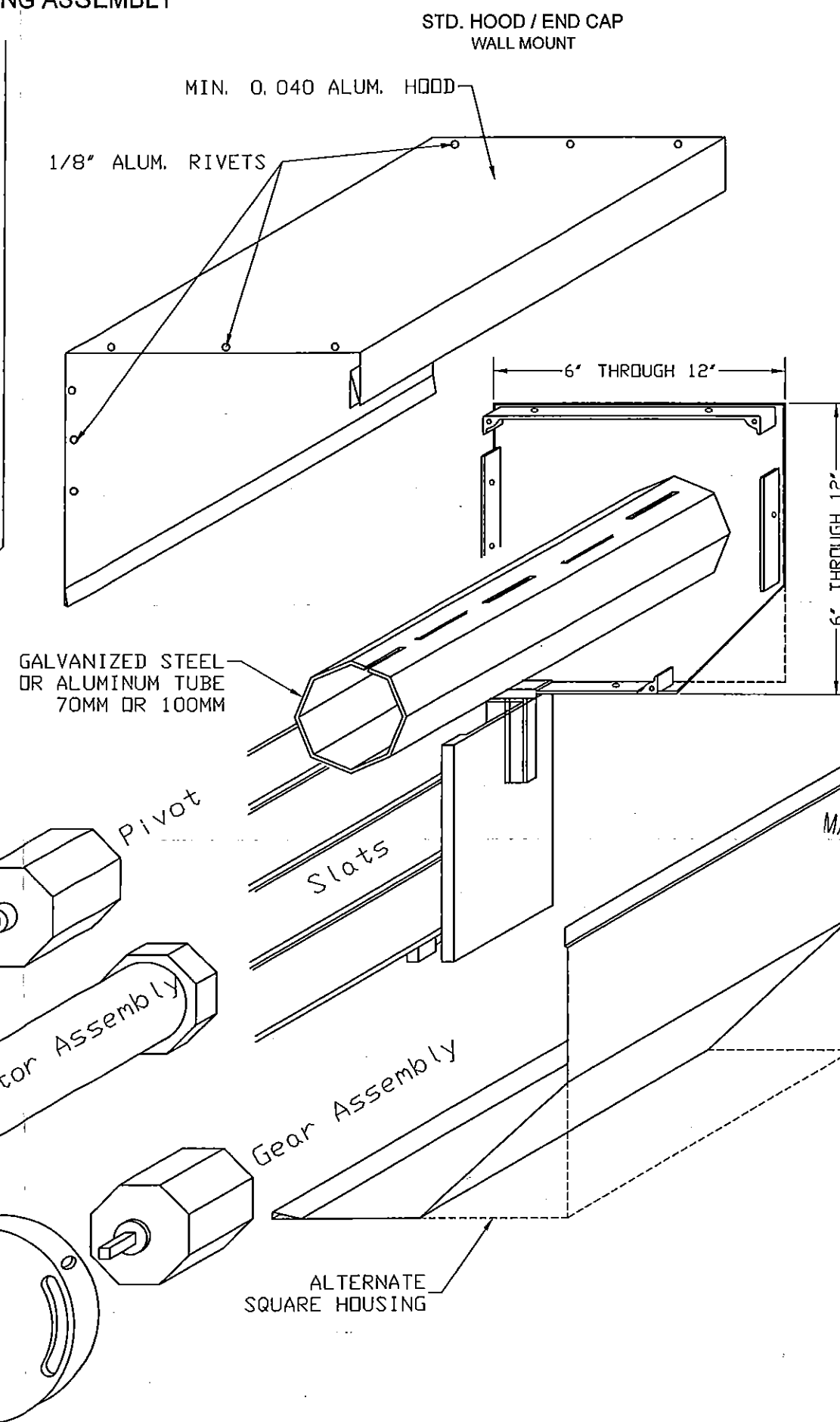
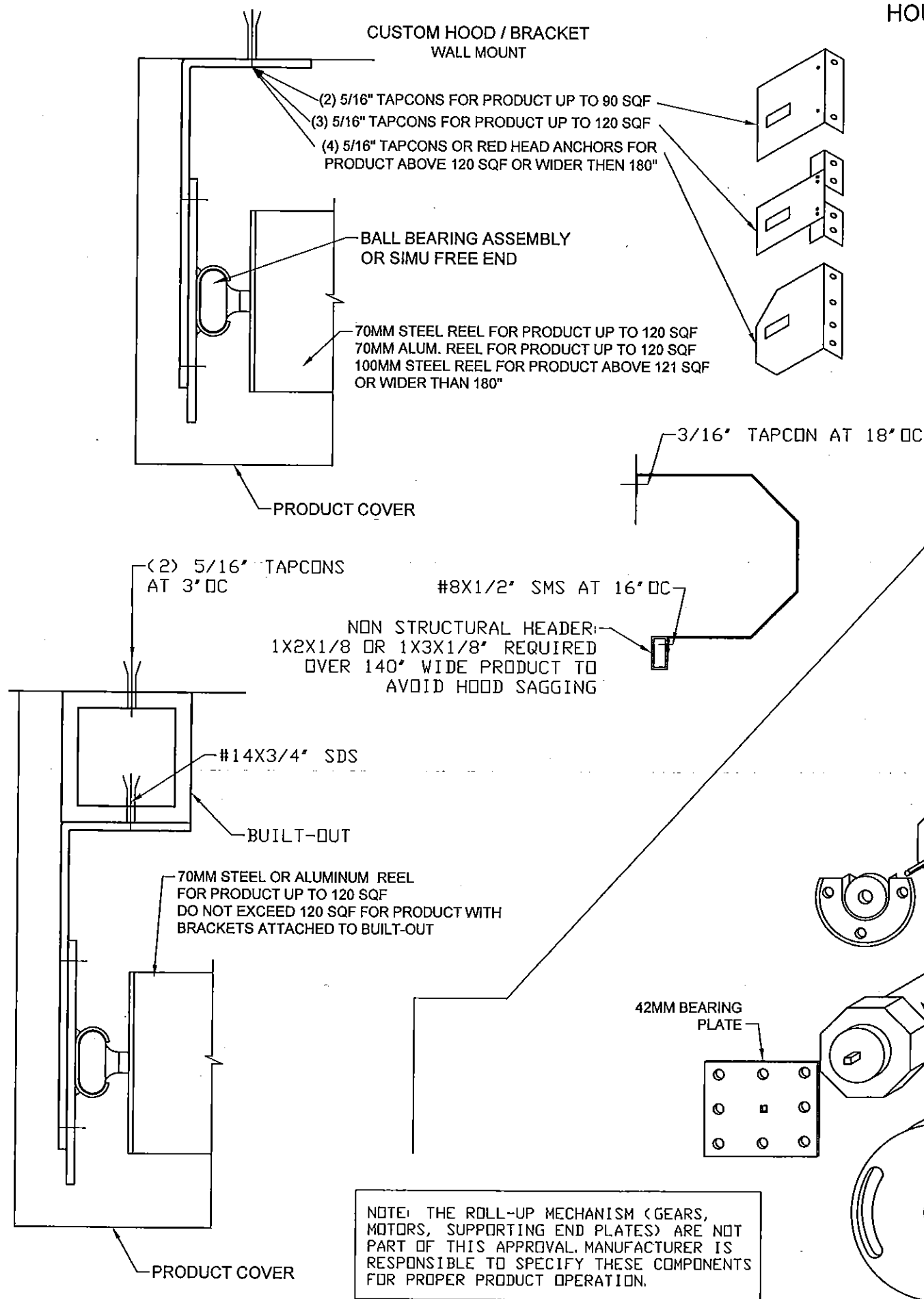
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0609.14
Expiration Date 06/02/2020
By *Heidi A. Miller*
Miami Dade Product Control

Date: 05/13/2015
Scale: NA
Design by: PPMF

Drawing Number
15-152

SHEET
7 of 8

HOUSING ASSEMBLY



MANUFACTURER:

ROLSAFE

12801 COMMONWEALTH
DRIVE SUITE 2
FORT MYERS, FL. 33913
PHONE: (239) 225-2487
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PRODUCT:

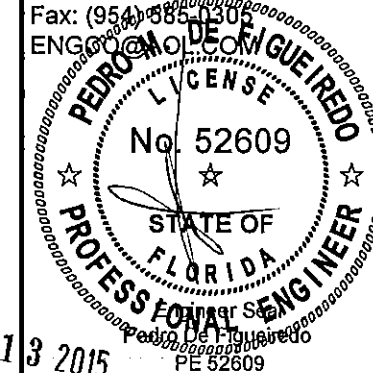
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MIAMI-DADE BCCO:

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Acceptance No. 15-0609.14
Expiration Date 06/03/2020
By H. G. A. Miller
Miami Dade Product Control

Date: 05/13/2015
Scale: NA
Design by: PPMF

Drawing Number
15-152

SHEET
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